

SEQUENCE LISTING

<110> Joel CROUZET

Daniel SCHERMAN

Beatrice CAMERON

Pierre WILS

Anne-Marie DARQUET

<120> DNA MOLECULES, PREPARATION AND USE IN GENE THERAPY

<130> MINICIRCLE

<140>

<141>

<160> 50

<170> PatentIn Ver. 2.1

<210> 1

<211> 37

<212> DNA

<213> Séquence artificielle

<220>

<223> Description of the artificial sequence:
oligonucleotide

TOPT-003-101901

<400> 1

aattgtgaag cctgcttttt tatactaact tgagcgg

37

<210> 2

<211> 37

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 2

aattccgctc aagttagtat aaaaaagcag gcttcac

37

<210> 3

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 3

ctgctttttt atactaactt g

21

09931303-104904

<210> 4

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 4

cagctttttt atactaagtt g

21

<210> 5

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 5

cagcgcattc gtaatgcgaa g

21

<210> 6

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 6

cttataattc gtaatgcgaa g

21

<210> 7

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 7

aacactttct taaatggtt

19

<210> 8

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 8

aacactttct taaattgtc

19

<210> 9

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 9

aagggattta aaatccctc

19

<210> 10

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 10

atggtattta aaatccctc

19

<210> 11

<211> 49

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 11

ttctctgtcg gggtagcgagg atttgaaccc acgacctctt cgtcccgaa

49

<210> 12

<211> 119

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 12

ttctttttttt tcttgaagcc tgcttttttta tactaagttg gcattataaa aaagcattgc 60
ttatcaattt gttgcaacga acaggtcact atcagtcaaa ataaaatcat tatttgatt 119

<210> 13

<211> 43

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 13

ttctttttttt tcttgaagcc tgctttttta tactaacttg agc

43

<210> 14

<211> 27

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 14

cgtcgaaata ttataaatta tcagaca

27

<210> 15

<211> 25

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 15

gaggcttctt cttcttcttc ttctt

25

<210> 16

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 16

ttctttcttgc ttctcttctt

20

<210> 17

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 17

ttctttcttgt ttctcttctt

20

<210> 18

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:

oligonucleotide

<400> 18

ttctttcttcc ttctcttctt

20

<210> 19

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:

oligonucleotide

<400> 19

aagaagcatg cagagaagaa

20

<210> 20

<211> 57

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:

oligonucleotide

<400> 20

gatccgaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa gaagaac

57

TOGETHER - 101001

<210> 21

<211> 57

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 21

gatcggttctt cttctttcttc ttctttcttct tcttcttctt cttctttcttc ttcttcg 57

<210> 22

<211> 66

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 22

gatctgaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa gaagaactgc 60
agatct 66

<210> 23

<211> 66

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 23

gatcagatct gcagttcttc ttctttcttct tcttcttctt cttcttcttc ttcttcttct 60
tcttca 66

<210> 24

<211> 56

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 24

gatcagatct gcagtctctt cttcttcttc ttcttcttct tcttcttctc ttctca 56

<210> 25

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 25

cttcttcttc ttcttcttct t

21

<210> 26

<211> 56

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 26

agcttctcga gctgcaggat atcgaattcg gatcctctag agcggccgcg agctcc 56

<210> 27

<211> 56

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 27

agctggagct cgcggccgct ctagaggatc cgaattcgat atcctgcagc tcgaga 56

<210> 28

<211> 49

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 28

actagtggcc atgcatccgc tcaagttagt ataaaaaagc aggcttcag 49

<210> 29

<211> 57

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 29

agctctgaag cctgcttttt tataactaact tgagcggatg catggccact agtagct 57

<210> 30

<211> 29

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 30

gcgtctagaa cagtatcgtg atgacagag 29

<210> 31

<211> 29

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 31

gccaaagctta gctttgcact ggattgcga

29

<210> 32

<211> 14

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 32

aagaaaaaaaa agaa

14

<210> 33

<211> 36

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 33

aaagatccgc gtcgactttg tgcttctctg gagtgc

36

<210> 34

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 34

aaacctagga aatcaaataa tga

23

<210> 35

<211> 47

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 35

tcgagttcct ttttttcttg aagcctgctt ttttactaac ttgagcg

47

0991800-101901

<210> 36

<211> 49

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 36

agctcgctca agttagtata aaaaagcagg cttcaagaaa aaaaagaac

49

<210> 37

<211> 30

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 37

atcctaggtc attatttgat ttcaattttg

30

<210> 38

<211> 40

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 38

caatctagat ttctcgaggc ccgggctcat taggcacccc

40

<210> 39

<211> 61

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 39

ctaggataaa ccgataacaat taaaggctcc ttttggagcc tttttttttg gagaactagt 60

a

61

<210> 40

<211> 61

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 40

cgcgtagctag ttctccaaaa aaaaaggctc caaaaggagc ctttaattgt atcggtttat 60
c 61

<210> 41

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 41

aaactcgagc aatgcttgca taa 23

<210> 42

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 42

aaacatatgt tcactccatc caa 23

<210> 43

<211> 22

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 43

aaaactagta tggcgattgc aa

22

<210> 44

<211> 22

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 44

aaagaattcg cagtcaaacg cg

22

<210> 45

<211> 27

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 45

aaaacatatg tacttgacac ttcagga

27

<210> 46

<211> 30

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 46

atcctaggtc attatttgat ttcaattttg

30

<210> 47

<211> 12

<212> DNA

<213> Artificial sequence

<220>

<223> Description of the artificial sequence:
oligonucleotide

<400> 47

tcttttttttc ct

12

<210> 48

<211> 14

14

25

<223> Description of the artificial sequence:
oligonucleotide

